

>AB077881 ACCESSION:AB077881 NID: gi 18181975 dbj AB077881.1 Homo  
sapiens mRNA for caspr5, complete cds  
Length = 4920

Score = 2567 bits (6581), Expect = 0.0  
Identities = 1303/1307 (99%), Positives = 1303/1307 (99%), Gaps = 3/1307 (0%)  
Frame = +1

Query: 1 MDSLPRLTSLVLTLLFSGLWHLGLTATNYNCDDPLASLLSPMAFSSSSDLTGTHSPAQLNW 60  
MDSLPRLTSLVLTLLFSGLWHLGLTATNYNCDDPLASLLSPMAFSSSSDLTGTHSPAQLNW  
Sbjct: 1 MDSLPRLTSLVLTLLFSGLWHLGLTATNYNCDDPLASLLSPMAFSSSSDLTGTHSPAQLNW 180

Query: 61 RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY 120  
RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY  
Sbjct: 181 RVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDWVTSYSLMFSDTGRNWKQY 360

Query: 121 KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRVPLEWNPSPGKIGMRVEVYGCSYKSDV 180  
KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRVPLEWNPSPGKIGMRVEVYGCSYKSDV  
Sbjct: 361 KQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRVPLEWNPSPGKIGMRVEVYGCSYKSDV 540

Query: 181 ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLQLKGRAL 240  
ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLQLKGRAL  
Sbjct: 541 ADFDGRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVLFHGEGQRGDHITLQLKGRAL 720

Query: 241 HNLGDSKARLSSSLPSATLGSLDDQHHW-VLIERVGKQVNFTVDKHTQHFRKGETDA 299  
HNLGDSKARLSSSLPSATLGSLDDQHHW VLIERVGKQVNFTVDKHTQHFRKGETDA  
Sbjct: 721 HNLGDSKARLSSSLPSATLGSLDDQHHWSVLIERVGKQVNFTVDKHTQHFRKGETDA 900

Query: 300 LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNII-LAKRRKHQIYTVGNVTFS 358  
LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNII LAKRRKHQIYT GNVTF  
Sbjct: 901 LDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLYYNGVNIIDLAKRRKHQIYT-GNVTF 1077

Query: 359 CSEPQIVPITF-NSSGSYLLLPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS 417  
CSEPQIVPITF NSSGSYLLLPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS  
Sbjct: 1078 CSEPQIVPITFVNSSGSYLLLPQIDGLSVSFQFRTWNKDGLLLSTELSEGSGTLLLS 1257

Query: 418 LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDAAPPAPDSTW 477  
LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDAAPPAPDSTW  
Sbjct: 1258 LEGGILRLVIQKMTERVAEILTGSNLNDGLWHSVSINARRNRITLTLDDAAPPAPDSTW 1437

Query: 478 VQIYSGNSYYFGGCPDNLTDSQLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL 537  
VQIYSGNSYYFGGCPDNLTDSQLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL  
Sbjct: 1438 VQIYSGNSYYFGGCPDNLTDSQLNPIKAFQGCMLIFIDNQPKDLISVQQGSLGNFSDL 1617

Query: 538 HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN 597  
HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN  
Sbjct: 1618 HIDLCSIKDRCLPNYCEHGGSCSQSWTTFYCNCSDTSYTGATCHNSIYEQSCEVYRHQGN 1797

Query: 598 TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG 657  
TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG  
Sbjct: 1798 TAGFFYIDSDGSGPLGPLQVYCNITEDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGG 1977

Query: 658 SMEQLEAVIDGSEHCEQEVAYHCRSRLLNTPDGTPTFWWIGRSNERHPYWGGSPPGVQQ 717  
SMEQLEAVIDGSEHCEQEVAYHCRSRLLNTPDGTPTFWWIGRSNERHPYWGGSPPGVQQ  
Sbjct: 1978 SMEQLEAVIDGSEHCEQEVAYHCRSRLLNTPDGTPTFWWIGRSNERHPYWGGSPPGVQQ 2157

Query: 718 CECGLDESCLDIQHFCNC DADKDEWTNDTGFLSFKDHL PVTQIVITD TDRSNSEAAWRIG 777  
 CECGLDESCLDIQHFCNC DADKDEWTNDTGFLSFKDHL PVTQIVITD TDRSNSEAAWRIG  
 Sbjct: 2158 CECGLDESCLDIQHFCNC DADKDEWTNDTGFLSFKDHL PVTQIVITD TDRSNSEAAWRIG 2337

Query: 778 PLRCYGDRRFWNAV SFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR 837  
 PLRCYGDRRFWNAV SFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR  
 Sbjct: 2338 PLRCYGDRRFWNAV SFYTEASYLHFPTFHA EFSADISFFFKTTALSGVFLENLGIKDFIR 2517

Query: 838 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNLKETS LQVDNLPRSTRE 897  
 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNLKETS LQVDNLPRSTRE  
 Sbjct: 2518 LEISSPSEITFAIDVGNGPVELVVQSPSLLNDNQWHYVRAERNLKETS LQVDNLPRSTRE 2697

Query: 898 TSEEGHFRLQLNSQLFVGGTSSRQKGLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH 957  
 TSEEGHFRLQLNSQLFVGGTSSRQKGLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH  
 Sbjct: 2698 TSEEGHFRLQLNSQLFVGGTSSRQKGLGCIRSLHLNGQKMDLEERAKVTSGVRPGCPGH 2877

Query: 958 CSSYGSICHNGGKCVEKHNGYLCDC TNSPYEGPFCCKEVS AVFEAGTSVTYMFQEPYPVT 1017  
 CSSYGSICHNGGKCVEKHNGYLCDC TNSPYEGPFCCKEVS AVFEAGTSVTYMFQEPYPVT  
 Sbjct: 2878 CSSYGSICHNGGKCVEKHNGYLCDC TNSPYEGPFCCKEVS AVFEAGTSVTYMFQEPYPVT 3057

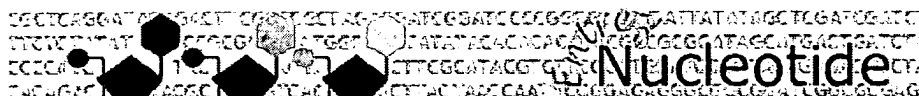
Query: 1018 KNISLSSSAIYTDSAPS KENIALSFVTTQAPSLLLFINSSSQDFVVLLCKNGSLQVRYH 1077  
 KNISLSSSAIYTDSAPS KENIALSFVTTQAPSLLLFINSSSQDFVVLLCKNGSLQVRYH  
 Sbjct: 3058 KNISLSSSAIYTDSAPS KENIALSFVTTQAPSLLLFINSSSQDFVVLLCKNGSLQVRYH 3237

Query: 1078 LNKEETHVFTIDADNFANRRMHHLKINREGRELT IQMDQQLRLSYNFSPEVEFRVIRSLT 1137  
 LNKEETHVFTIDADNFANRRMHHLKINREGRELT IQMDQQLRLSYNFSPEVEFRVIRSLT  
 Sbjct: 3238 LNKEETHVFTIDADNFANRRMHHLKINREGRELT IQMDQQLRLSYNFSPEVEFRVIRSLT 3417

Query: 1138 LGKVTENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC 1197  
 LGKVTENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC  
 Sbjct: 3418 LGKVTENLGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTESSC 3597

Query: 1198 GFMVDSDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT 1257  
 GFMVDSDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT  
 Sbjct: 3598 GFMVDSDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVIFIIFCIIGIMT 3777

Query: 1258 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI 1304  
 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI  
 Sbjct: 3778 RFLYQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI 3918



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

 Search  for   

Limits

Preview/Index

History

Clipboard

Details

Display

default

Save

Text

Add to Clipboard

☐ 1: AB077881. Homo sapiens mRNA...  
[gi:18181975]

MapView, Related Sequences, Protein, Taxonomy,  
LinkOut

LOCUS AB077881 4920 bp mRNA linear PRI 17-JAN-2002  
 DEFINITION Homo sapiens mRNA for caspr5, complete cds.  
 ACCESSION AB077881  
 VERSION AB077881.1 GI:18181975  
 KEYWORDS .  
 SOURCE Homo sapiens brain cDNA to mRNA.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Takeuchi,K., Watanabe,N., Kawano,T. and Kawamura,K.  
 TITLE In vitro and in vivo studies on the involvement of neural cell  
 adhesion molecules and chondroitin sulfate proteoglycans in  
 defining discrete axonal pathways of the rat cerebral cortex  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 4920)  
 AUTHORS Takeuchi,K.  
 TITLE Direct Submission  
 JOURNAL Submitted (12-JAN-2002) Kosei Takeuchi, Nagoya University, Dept. of  
 Biological Sciences; Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8602,  
 Japan (E-mail:ktakeuch@biol1.bio.nagoya-u.ac.jp,  
 Tel:81-52-789-2496, Fax:81-052-789-2968)  
 FEATURES Location/Qualifiers  
 source 1..4920  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /tissue\_type="brain"  
 gene 1..3921  
 /gene="caspr5"  
 CDS 1..3921  
 /gene="caspr5"  
 /codon\_start=1  
 /product="caspr5"  
 /protein\_id="BAB83897.1"  
 /db\_xref="GI:18181976"  
 /translation="MDSLPRLTSVLTLFLSGLWHLGLTATNYNCDDPLASLLSPMAFS  
 SSSDLTGTHSPAQLNWRVGTGGWSPADSNAQQWLQMDLGNRVEITAVATQGRYGSSDW  
 VTSYSLMFSDTGRNWKQYKQEDSIWTFAGNMNADSVVHHKLLHSVRARFVRFPLEWN  
 PSGKIGMRVEVYGCYSKSDVADFDRSSLLYRFNQKLMSTLKDVISLKFKSMQGDGVL  
 FHGEGQRGDHITLLELQKGRLLHLNLGDSKARLSSSLPSATLGSLLDDQHWHSVLIER  
 VGKQVNFVTDKHTQHFRKTGETDALDIDYELSFGGIPVPGKPGTFLKKNFHGCIENLY  
 YNGVNIIDLAKRRKHQIYTGNTVFCSEPIVPIITFVNSSGSYLLLPQTPQIDGLSVS  
 FQFRTWNKDGLLLSTELSESGTLLLSLEGGILRLVIQKMTERRVAEILTGSNLNDGLW  
 HSVSINARRNRITLTLDDAAPPAPDSTWVQIYSGNSYYFGGCPDNLTDSQLNP IKA  
 FQGCMLRIFIDNQPKDLISVQQGSLGNFSDLHIDLCSIKDRCLPNYCEHGGSCSQSWT  
 TFYCNCSDTSYTGATCHNSIYEQSCVEYRHQGN TAGFFYIDSDGSGPLGPLQVYCNIT

EDKIWTSVQHNNTELTRVRGANPEKPYAMALDYGGSMEQLEAVIDGSEHCEQEVAYHC  
 RRSRLNTPDGTPTWWIGRSNERHPYWGGSPPGVQQCECLDESCLDIQHFCNCDDAD  
 KDEWTNDTGFLSFKDHLPTVITDITDRSNSEAAWRIGPLRCYGDRRFVNAVSYFTE  
 ASYLHFPTFHAEFSAFISFFFKTTALSGVFLENLGKDFIRLEISSPSEITFAIDVGN  
 GPVELVVQSPSLNDNQWHYVRAERNLKETSLQVDNLPRSTRETSEEGHFRQLNSQL  
 FVGGTSSRQKGFGLGCI RSLHLNGQKMDLEERAKVTSQVRPGCPGHCSSYGSICHNGGK  
 CVEKHNGYLCDC TNSPYEGPFCKKEVSAVFEAGTSVTYMFQEPYPVTKNISLSSSAIY  
 TDSAPSKENIALSFVTTQAPSLLLFINSSSQDFVVLLCKNGSLQVRYHLNKEETHVF  
 TIDADNFANRRMHHLKINREGRELTIQMDQQLRLSYNFSPEVEFRVIRSLTLGKV TEN  
 LGLDSEVAKANAMGFAGCMSSVQYNHIAPLKAALRHATVAPVTVHGTLTLESSCGFMVD  
 SDVNAVTTVHSSSDPFGKTDEREPLTNAVRSDSAVIGGVIAVVFIFIIFCIIGIMTRFL  
 YQHKQSHRTSQMKEKEYPENLDSSFRNEIDLQNTVSECKREYFI"

BASE COUNT      1292 a      1229 c      1160 g      1239 t

ORIGIN

```

1 atggattctt taccacggct gaccagcggt ttgactttgc tgttctctgg cttgtggcat
61 ttaggattaa cagcgacaaa ctacaactgt gatgatccac tagcatccct gctctctcca
121 atggcttttt ccagttcctc agacctcact ggcactcaca gccagctca actcaactgg
181 agagttggaa ctggcgggtg gtccccagca gattccaatg ctcaacagtg gctccagatg
241 gacctgggaa acagagtaga gattacagca gtggccacgc aggaagata cggaaagctct
301 gactgggtga cgagttacag cctgatgttc agtgacacag gacgcaactg gaaacagtac
361 aaacaagaag acagcatctg gacctttgca ggaaacatga atgctgacag cgtggtgac
421 cacaagctat tgcactcagt gagagcccga tttgttcgct ttgtgcccct ggaatggaat
481 cccagtggga agattggcat gagatcgag gtctacggat gttcctataa atcagatgtt
541 gctgactttg atggccgaag ctcaactctg tacaggttca atcagaagtt gatgagtact
601 ctcaaaagat tgatctccct gaagttcaag agcatgcaag gagatggggt cctgttccat
661 ggagaagggtc agcgtggaga ccacatcacc ttggaactcc agaaggggag gctcgcctta
721 cacctcaatt tgggtgacag caaagcgagg ctacagcagca gcttgccctc tgccaccctg
781 ggcagcctcc tggatgacca gcactggcac tcggtcctca ttgagcgggt gggcaagcag
841 gtgaacttca cggtggacaa gcacacacag cacttcgcga ccaagggcga gacggatgcc
901 ttagacattg actatgagct tagttttgga ggaattccag taccaggaaa acctgggacc
961 tttttaaaga aaaacttcca tggatgcac gaaaaccttt actacaatgg agtaaacata
1021 attgacctgg ctaagagacg aaagcatcag atctatactg gcaatgtcac ttttctctgc
1081 tccgaaccac agattgtgcc catcacattt gtcaactcca gcggcagcta tttgctgctg
1141 cccggcacc cccaaattga tgggctctca gtgagtttcc agtttcgaac atggaacaag
1201 gatggtctgc ttctgtccac agagctgtct gagggctcgg gaaccctgct gctgagcctg
1261 gaggggtggaa tcctgagact cgtgattcag aaaatgacag aacgcgtagc tgaaatcctc
1321 acaggcagca acttgaatga tggcctgtgg cactcggtta gcatcaacgc caggaggaa
1381 cgcacacgc tcaactctga tgatgaagca gcaccccggt ctccagacag cacttgggtg
1441 cagatttatt ctggaaaatg ctactatttt ggagggtgcc ccgacaatct caccgattcc
1501 caatgtttta atccccattaa ggctttccaa ggctgcatga ggctcatctt tattgataac
1561 cagcccaagg acctcatttc agttcagcaa ggttccttgg ggaattttag tgatttacac
1621 attgatctgt gtagcatcaa agacaggtgt ttgcaaact actgtgaaca tggaggaagc
1681 tgctcccagt cctggactac cttctattgt aactgcagt acacaagtta cactggtgac
1741 acctgccaca actccatcta cgagcaatcc tgcgaggtgt acaggacca ggggaataca
1801 gccggcttct tctacatcga ctcatagggc agcgcccccac tgggacctct ccagggtgtac
1861 tgcaatatca ctgaggacaa gatctggaca tcagtgcagc acaacaatac agagctgacc
1921 cgagtgcggg gcgctaaccc tgagaagccc tatgccatgg ccttgacta cgggggcagc
1981 atggaacagc tggaggccgt gatcgacggc tctgagcact gtgagcagga ggtggcctac
2041 cactgcagga ggtcccgct gctcaacacg ccggatggaa caccatttac ctggtggatt
2101 gggcggtcca atgaaaggca cccttactgg ggaggttccc ctctgggggt ccagcagtgt
2161 gagtgtggcc tagacgagag ctgcctggac attcagcact tttgcaattg cgacgtgac
2221 aaggatgaat ggacaaatga tactggcttt ctttccttca aagaccactt gcctgtcact
2281 cagatagtta tcaactgata cgacagatca aactcagaag ccgcttggag aattggtccc
2341 ttgcgttgct atggtgaccg acgcttctgg aacgccgtct cattttatac agaagcctct
2401 tacctccact ttctacctt ccattgcggaa ttcagtgcgg atatttcctt cttttttaaa
2461 accacagcat tatccggagt tttcctagaa aatcttggca ttaaagactt cattcgactc
2521 gaaataagct ctccctcaga gatcaccttt gccatcgatg ttgggaatgg tcctgtggag
2581 cttgtagtcc agtctccttc tcttctgaat gacaaccaat ggcactatgt cggggtgag
2641 aggaacctca aggagacctc cctgcagggt gacaaccttc caaggagcac caggagagc
2701 tcggaggagg gccattttcg actgcagctg aacagccagt tgtttgtagg ggaacgtca

```

2761 tccagacaga aaggcttcct aggatgcatt cgctccttac acttgaatgg acagaaaatg  
2821 gacctggaag agagggcaaa ggtcacatct ggagtcaggc caggctgccc cggccactgc  
2881 agcagctacg gcagcatctg ccacaacggg ggcaagtgtg tggagaagca caatggctac  
2941 ctgtgtgatt gcaccaattc accttatgaa gggccctttt gcaaaaaaga ggtttctgct  
3001 gtttttgagg ctggcacgtc ggttacttac atgtttcaag aaccctatcc tgtgaccaag  
3061 aatataagcc tctcatcctc agctatttac acagattcag ctccatccaa ggaaaacatt  
3121 gcacttagct ttgtgacaac ccaggcacc cagtcctttgc tctttatcaa ttcttcttct  
3181 caggacttcg tggttgttct gctctgcaag aatggaagct tacaggttcg ctatcaccta  
3241 aacaaggaag aaacccatgt attcaccatt gatgcagata actttgctaa cagaaggatg  
3301 caccacttga agattaaccg agaggggaaga gagcttacca ttcagatgga ccagcaactt  
3361 cgactcagtt ataacttctc tccggaagta gagttcaggg ttataaggtc actcaccttg  
3421 ggcaaagtca cagagaatct tggtttgat tctgaagttg ctaaagcaaa tgccatgggt  
3481 tttgctggat gcatgtcttc cgtccagtag aaccacatag caccactgaa ggctgccctg  
3541 cgccatgcc a ctgtcgcgcc tgtgactgtc catgggacct tgacggaatc cagctgtggc  
3601 ttcattggtg actcagatgt gaatgcagtg accacggtgc attcttcate agatcctttt  
3661 gggaaagacag atgagcggga accactcaca aatgctgttc gaagtgatc cggcagtcac  
3721 ggaggggtga tagcagtggg gatattcacc atcttctgta tcatcggcat catgaccggg  
3781 ttcctctacc agcacaagca gtcacatcgt acgagccaga tgaaggagaa ggaatatcca  
3841 gaaaatttgg acagtccctt cagaaatgaa attgacttgc aaaacacagt gagcgagtgt  
3901 aaacgggaat atttcatctg agaaactgca gggttcctac tactcttttt tcttgttgtt  
3961 caattatctc ctccccctct tctctcctgt cttttgattt ggtcattctc ttattttctt  
4021 gcttgccatg tcttttctgg aacatacttg catccaccac agcatcaatt cccttgatcc  
4081 agcccaagag accaggcagc catggccact gccttcctct ctgatgaacc tatcgggtga  
4141 aaacgaccac tcaagagact gacttcgcc a ttcaagacaa ggaagagaca catgtgtgca  
4201 ctctgcacatg ttcagttctg tacttccagt ttctaaaatg cactgttcag ttttccaacc  
4261 acttggtggt tcaggcttgc tttgaacctg agctcttagg cacatgacgg tcattcctga  
4321 catcctcccc agctcaagtc tattcttacc atagaacca gggcagggag agaagaacct  
4381 agaggcctgg tttgctttgg tggcattgta aaaagagtaa gagaggtttg gtttgtggtg  
4441 gtttgctttc tttaccataa gcaatccctt gccttaactc atcacccttt ttcactatga  
4501 cccttagacc ctgagtattt tcaaatatat gattgctgat agtagtgacc aaaactactt  
4561 tgttcctttc ttaccactct ctctggggc cgacacgttg ggacagcaca ccatagcata  
4621 aagctagggg atgcatggaa atagcagctt gaaactagga ggtaacaaga aagcttctag  
4681 gaagtagatg ttccatatct tcaaaatgcc tcctccaatt ttgtaagaat gctagctagg  
4741 tattcctggg attattatac tgagatatat atatatacac acacacacac atatgtgtat  
4801 atatgtatat atatatgtga gtatatatac acacacacac acacacacac atatatatat  
4861 atacacacac gcacacatat atgttgctgc agcataaaga aattgaaata aaagttaaaa

//

Revised: July 5, 2002.

[Disclaimer](#) | [Write to the Help Desk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)

Jul 16 2002 16:59:14